

**PUBLIC BUILDING COMMISSION OF CHICAGO
THIRD AMENDMENT
CONTRACT NUMBER PS 1643**

THIS THIRD AMENDMENT AGREEMENT is made and entered into as of the 16th day of December, 2010, and shall be deemed and taken as forming a part of the Agreement for Architect of Record Services for Gateway Harbor & 31st Street Harbor ("Agreement") by and between the **PUBLIC BUILDING COMMISSION OF CHICAGO**, a municipal corporation of the State of Illinois ("Commission") and **AECOM TECHNICAL SERVICES, INC.** ("Consultant") dated July 14, 2009 with the like operation and effect as if the same were incorporated therein.

WITNESSETH:

WHEREAS, the Commission and Consultant have heretofore entered into an Agreement dated the 14th day of July, 2009, wherein the Consultant is to provide Architect of Record Services for the Chicago Park District; and

WHEREAS, the Commission and Consultant now desire to amend the Agreement to include Additional Services performed and associated compensation due to Consultant;

NOW THEREFORE, in consideration of the provisions and conditions set forth in the Agreement and herein, the parties hereto mutually agree to amend the Agreement as hereinafter set forth.

It is agreed by and between the parties hereto that the sole modification of, changes in, and amendments to the Agreement pursuant to this Amendment are as follows:

TERMS

1. Recitals

THE ABOVE RECITALS ARE EXPRESSLY INCORPORATED IN AND MADE A PART OF THE AMENDMENT AGREEMENT AS THOUGH FULLY SET FORTH HEREIN.

2. Schedule A - Scope of Services is amended to include the following Additional Services required for Gateway Harbor and 31st Harbor Program to perform Architect of Record services.

2.1. Design Change to the Gateway Harbor – Consultant will modify the design to incorporate the following:

2.1.1. Provide engineering services associated with the redesign of Gateway Harbor, including a Feasibility Evaluation and a planned coastal engineering review.

The scope of the aforementioned services are detailed in Attachment A to this Amendment 3.

3. Schedule D – Compensation of Architect

Section I. Architect's Fee is revised as follows:

3.1 The Commission shall pay the Consultant for the satisfactory performance of the Additional Services outlined in Item 2.1 above for a time card not-to-exceed amount of \$53,130.00

Execution of this Amendment by the Consultant is duly authorized by the Consultant, and the signature(s) of each person signing on behalf of the Consultant have been made with the complete and full authority to commit the Consultant to all terms and conditions of this Amendment.

All capitalized terms not defined herein shall have the meaning ascribed to them in the Agreement. Except as and to the extent that the terms of the Agreement are amended and modified herein, all terms of the Agreement shall remain in force and effect.

The terms of the Agreement remain in full force and effect except as modified in this Amendment.

(Signature Page follows)

ARCHITECT OF RECORD SERVICES
GATEWAY HARBOR AND 31ST STREET HARBOR – PS1643-A3
PROJECT NO. 11110

IN WITNESS WHEREOF, the parties hereto have agreed and executed this Amendment No. 3.

PUBLIC BUILDING COMMISSION
OF CHICAGO

BY: *Richard M. Daley*
Richard M. Daley
Chairman

Date: _____

ATTEST:

BY: *Edrick C. Johnson*
Edrick C. Johnson
Secretary

Date: 2/16/2011

ARCHITECT

AECOM TECHNICAL SERVICES, INC.

By: *Meghan K. White*
Vice President

Date: 1-24-11

AFFIX CORPORATE

SEAL, IF ANY, HERE

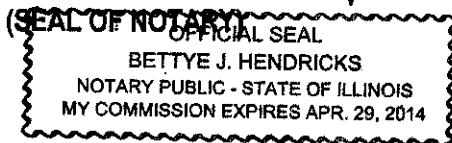
County of: Cook

State of: Illinois

Subscribed and sworn to before me by *Meghan K. White*
on behalf of Consultant this 4th day of Feb., 2011.

Betty J. Hendricks
Notary Public

My Commission expires: April 29, 2014



Approved as to form and legality

Jacinta Epling
Neal & Leroy, LLC

Date: 2-7-11

**ATTACHMENT A
SCOPE OF WORK - GATEWAY HARBOR
ARCHITECT OF RECORD SERVICES
GATEWAY HARBOR and 31ST STREET HARBOR - PS1643-A3
PROJECT NO. 11110**

(CONSULTANT'S SCOPE OF SERVICE FOLLOWS THIS PAGE)

AECOM
750 Corporate Woods Parkway, Vernon Hills, IL 60061

Memorandum

Date: **November 3, 2010**
To: Kevin Hall, Public Building Commission
From: Bill Weaver
Subject: Gateway Harbor Optional Scheme Evaluation Study, and Option 3 Coastal
Engineering Feasibility Evaluation -- Add Services Request Summary

COASTAL ENGINEERING SERVICES GATEWAY

In response to feedback from MPEA and the boating interests at Navy Pier, PBC has initiated additional feasibility studies with respect to alternative harbor options for Gateway Harbor. PBC has determined that Option 3 is the alternative that may best meet the needs of project stakeholders as determined during the recent feasibility assessment. This option includes a significant change to the harbor entrance compared to the current design scheme that was completed during September. AECOM has completed preliminary analysis and believes that Option 3 has a reasonable chance of meeting harbor wave management standards. However, additional numerical computer model study is needed to confirm this conclusion due to the complexity of the wave climate at the entrance. The additional study will also provide additional information so that Concord can evaluate the construction cost for the new harbor mouth geometry.

AECOM has supported the feasibility study efforts and also proposes to perform additional coastal engineering studies to clarify the geometry and feasibility of Option 3. This effort will help provide direction with respect to Option 3 harbor mouth geometry and required structure geometry. This analysis is designed to provide feedback to the program team with a rapid turnaround to help PBC and CPD make decisions with respect to the potential launch of a redesign effort for the harbor.

Following is a summary of the proposed work scope and budget to complete the feasibility evaluation:

1. Phase 1 Feasibility Evaluation: AECOM has supported PBC in the evaluation of alternative harbor schemes. This effort has included the following tasks:
 - Base map preparation
 - Input to development of harbor options and schematic drawings
 - Evaluate schematic hydraulic and structural aspects of harbor breakwater and entrance structures and provide input to Concord with respect to expected geometry for new structures and associated cost elements
 - Preliminary desktop wave climate evaluation and harbor agitation assessment for three options
 - Prepare for and attend meetings with PBC, CPD, and Westrec.

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The cost of the additional engineering for Phase 1 is \$18,097 as follows:

Weaver (Sr. Principal Engineer):	35 hours @ \$188.43/hr	= \$6,595.05
Nicosin (Struc. Sr. Project Engineer):	25 hours @ \$121.38/hr	= \$3,034.50
Dutler (Struc. Project Engineer):	25 hours @ \$98.26/hr	= \$2,456.50
<u>Drew/Baker (Civil/Coastal Project Engineer):</u>	80 hours @ \$75.14/hr	= \$6,011.20

Subtotal Hours: 165 hours

2. Phase 2 Coastal Engineering Evaluation to Assess Option 3 Harbor Mouth Configuration: The harbor mouth configuration has been developed for Option 3 based on a preliminary desktop wave climate evaluation. The harbor mouth wave climate is complicated; therefore, additional numerical computer modeling is needed to help evaluate the geometry of the harbor mouth breakwater structures. Since these structures are in very deep water and will have a significant impact on the overall harbor cost, we propose completion of a quick turnaround coastal engineering evaluation for the harbor mouth structures.

The evaluation will include a numerical computer model analysis to be completed in a three week period. The model will assess the wave climate and necessary refinement of the preliminary geometry of the harbor mouth structures. While this analysis is not a final design level study, it will significantly advance our understanding of the harbor mouth structure needs. A letter report will be provided immediately upon completion of the model evaluation.

This study is intended to provide a better assessment of the necessary harbor mouth structures and the likely harbor wave climate associated with the selected configuration. The study will include the development of two numerical model scenarios for the Option 3 harbor mouth. These options will be targeted to bracket the problem since we cannot determine the needs by desktop analysis alone. The first model iteration will represent the current Option 3 layout. The second model iteration will include a variation on this option and will include additional structure mass to better shield the harbor from potentially unacceptable wave agitation. It is likely that this model iteration will include an elongation of the two breakwater arms while maintaining a minimum 200 foot fairway at all locations. We will work to develop this second iteration geometry to improve the odds that we bracket a result that will provide the necessary wave management performance. We will interpret the results and prepare a brief letter report.

Following is a summary of the proposed numerical model features:

- The existing Mike21 BW numerical model developed for Gateway Harbor last year will be modified to reflect the Option 3 harbor configuration. The elimination of the north arc breakwater and commercial piers, and generalized representation of the new breakwater structures, will be incorporated into the model.
- A rough assessment of how the existing BW model is handling reflection from the navy Pier relieving platform will be performed based on results from physical model tests completed last year.
- Coastal structure reflection and transmission/overtopping parameters for the two new breakwaters at the harbor mouth will be assumed to be similar to the parameters developed for the south harbor structures in the current model. Minor refinements will be approximated if needed based on our experience. Wave overtopping of dime pier for southeast wave attack will be ignored for this assessment phase in the interest of time – but will be interpreted external from the model runs.
- Mike21BW model runs will be completed for one east attack wave and one southeast wave, with a fixed lake level associated with each wave condition. We will select appropriate wave/level pairs that will allow us to project to a variety of storm event recurrence intervals.

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- A total of four Mike21 BW model runs will be completed including two wave attack scenarios and for two harbor entrance configurations. Preliminary relative wave height diagrams will be developed for the north harbor for each model run providing a basis for storm event harbor agitation assessment.

The cost of the additional engineering for Phase 2 is \$35,033 as follows:

Labor:

Weaver (Sr. Principal Engineer):	50 hours @	\$188.43/hr	=	\$9,421.50
Drumright/Diehm (Struc. Sr. Project Engineer):	8 hours @	\$121.38/hr	=	\$ 971.04
Dutler (Struc. Project Engineer):	8 hours @	\$ 98.26/hr	=	\$ 786.08
<u>Drew/Baker (Civil/Coastal Project Engineer):</u>	38 hours @	\$ 75.14/hr	=	\$2,855.32
Subtotal Hours:	112 hours			

Other Direct Costs:

Numerical Computer Modeling	=	\$20,000
Other misc direct costs	=	\$ 1,000

We plan to complete the harbor mouth feasibility level computer modeling within 3 weeks of receipt of notice to proceed. A letter report will be issued immediately after this work effort is completed.

If you have any questions regarding this proposal, please call Bill Weaver at 847-323-2171.

**UNANIMOUS ACTION OF THE BOARD OF DIRECTORS
OF
AECOM TECHNICAL SERVICES, INC.**

The undersigned, being all the members of the Board of Directors of AECOM TECHNICAL SERVICES, INC. (the "Corporation"), a California corporation, hereby take the following action, effective April 26, 2010:

RESOLVED, that in addition to all Senior Vice Presidents and above as set forth in Article IX, Section 16 of the Restated By-Laws as amended, the following persons in the Corporation's Planning Design + Development Business Line are designated with authority by the Board of Directors to execute contracts and other legal documents on behalf of the Corporation or its divisions. **This list supersedes and replaces all previous authorizations for the Planning Design + Development Business Line:**

West

Shafiq Alam
Amitabh Barthakur
Bob Bracamonte
Bob Chickering
Bill Crockett
Andrew M. Cupples
Phillip Dunn
Matthew Earnest
Stephen Engblom
Charles Everett
Allen Folks
Steven E. Galloway
William Graham
Richard M. Hansen
Steve Heipel
Thomas F. Horan
Ray Hrenko
Fred Jones
Todd Kohli
Craig J. Martin
Henry Pittner
Sundar Rajan
Marcia Tobin
Eric Wilson
Steven Zimmerman

Southeast

David Barth
Ladson M. Brearley, Jr.
Fredalyn Frasier
W. Ronald Hunt
Tim Jackson
Lin Joyner
Craig Kenyon
Sharon Lamantia

Mid-Atlantic

Kenneth A. Ballard
Mark L. Ballard
Greg Chang
Allen Crocker
Jeff Ganthner
Paul T. Garrison
Adrian Hagerty
Jonathan Hopwood
Charles P. Malacarne
Richard A. McSeveney
Get W. Moy
Paul Moyer
Mac Nichols
Robert V. Perry
John H. Spyhalski
Brian (Scott) Waters
Bradley Wellington
Joseph E. Wells

Northeast

Karen Breslawski
Sara Haga
Lawrence Rosenbloom

Southwest/Mountain

Aaron Adilman
Stephen Bailey
Shawn Hailey
Jay Hicks
Aldon W. Jenkins
Tom Keith
Jana McKenzie
Steven A. Lichtenberger
Craig J. Martin
Kirk Rabius
Steve Wilensky

Midwest

Aaron Adilman
Chris Brewer
Jon Buggy
Steve Deuthman
Meghan Harte
Mic Johnson
Faye LeDoux
Dennis Meyer
Jon Neimuth
Tom Olesak
Steve Wernersbach

Corporate

Jason Bowen
Andrew Fiala
William Garrett
Mark Gundacker
Michael Katz
Gilda Malek
John Sorce

IN TESTIMONY WHEREOF, all the Directors have hereunto set their hands, effective the 26th day of April, 2010.



Alan Krust



Joe Brown



John Kinley



Robert Weber